

Listing of Claims

1. (previously presented) An Internet facsimile gateway device connected to a telecommunication network and the Internet, comprising:

an image-information transmitting unit that transmits image information included in an electronic mail message to a facsimile device by facsimile transmission over the telecommunication network that is not the Internet, when said Internet facsimile gateway device receives said electronic mail message requesting image-information transmission to the facsimile device;

a delivery-confirmation-mail creating unit that creates a delivery-confirmation mail message notifying a result of the image-information transmission after the image-information transmission by said Internet facsimile gateway device is completed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message to an original address of said electronic mail message; and

a delivery-confirmation-mail transmitting unit that transmits the delivery-confirmation mail message to the original address of said electronic mail message.

2. (original) The Internet facsimile gateway device as claimed in claim 1, wherein:

the delivery-confirmation mail message is regulated by a DSN; and

the delivery-confirmation-mail creating unit creates the delivery-confirmation mail message regulated by the DSN notifying a successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the successful image transmission to the original address of said electronic mail message.

3. (original) The Internet facsimile gateway device as claimed in claim 1, wherein:
the delivery-confirmation mail message is regulated by the DSN; and
the delivery-confirmation-mail creating unit that creates the delivery-confirmation mail message regulated by the DSN notifying a failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the failed image transmission to the original address of said electronic mail message.

4. (original) The Internet facsimile gateway device as claimed in claim 1, wherein:
the delivery-confirmation mail message is regulated by a MDN; and
the delivery-confirmation-mail creating unit that creates the delivery-confirmation mail message regulated by the MDN notifying the successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the successful image transmission to the original address of said electronic mail message.

5. (original) The Internet facsimile gateway device as claimed in claim 1, wherein:
the delivery-confirmation mail message is regulated by the MDN; and
the delivery-confirmation-mail creating unit creates the delivery-confirmation mail message regulated by the MDN notifying the failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic

mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the failed image transmission to the original address of said electronic mail message.

6. (original) The Internet facsimile gateway device as claimed in claim 1, wherein the delivery-confirmation mail message further comprising a first extension field that indicates a total number of pages transmitted to the facsimile device.

7. (original) The Internet facsimile gateway device as claimed in claim 1, wherein the delivery-confirmation mail message further comprising a second extension field that indicates a communication charge for transmitting the image information to the facsimile device.

8. (original) The Internet facsimile gateway device as claimed in claim 1, wherein the delivery-confirmation mail message further comprising a third extension field that indicates a time at which the image-information transmission is completed.

9. (original) The Internet facsimile gateway device as claimed in claim 1, wherein the telecommunication network is a general switched telephone network GSTN.

10. (original) The Internet facsimile gateway device as claimed in claim 1, wherein the telecommunication network is an analog public network PSTN, and the facsimile device is a G3 facsimile device.

11. (original) The Internet facsimile gateway device as claimed in claim 1, wherein the

telecommunication network is an integrated services digital network ISDN, and the facsimile device is a G4 facsimile device.

12. (original) The Internet facsimile gateway device as claimed in claim 1, wherein said delivery-confirmation-mail creating unit creates the delivery-confirmation mail message that notifies the result of the image-information transmission, said result including reception ability information of the facsimile device received therefrom, after the image-information transmission by said Internet facsimile gateway device is completed if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message to the original address of said electronic mail message.

13. (original) The Internet facsimile gateway device as claimed in claim 12, wherein the telecommunication network is an analog public network PSTN, and the facsimile device is a G3 facsimile device.

14. (original) The Internet facsimile gateway device as claimed in claim 13, wherein the reception ability information of the G3 facsimile device is a content of a signal DIS (Digital Identification Signal) notified therefrom.

15. (original) The Internet facsimile gateway device as claimed in claim 13, wherein the reception ability information of the G3 facsimile device is a content of a signal NSF (Non-Standard Facilities) notified therefrom.

16. (original) The Internet facsimile gateway device as claimed in claim 13, wherein the

reception ability information of the G3 facsimile device is a content of a signal JM notified therefrom.

17. (original) The Internet facsimile gateway device as claimed in claim 13, wherein the reception ability information of the G3 facsimile device is information about a function to connect to the Internet in a case that the G3 facsimile device includes the function to connect to the Internet.

18. (original) The Internet facsimile gateway device as claimed in claim 17, wherein the reception ability information of the G3 facsimile device includes a content of a signal CSA notified therefrom.

19. (original) The Internet facsimile gateway device as claimed in claim 12, wherein the telecommunication network is an integrated services digital network ISDN, and the facsimile device is a G4 facsimile device.

20. (original) The Internet facsimile gateway device as claimed in claim 19, wherein the reception ability information of the G4 facsimile device is a content of a signal RDCLP notified therefrom.

21. (original) An Internet facsimile gateway device connected to a telecommunication network and the Internet, comprising:

an image-information transmitting unit that transmits image information included in an electronic mail message to a facsimile device when said Internet facsimile gateway device

receives said electronic mail message requesting image-information transmission to the facsimile device;

a first-delivery-confirmation-mail creating unit that creates a first delivery-confirmation mail message notifying a successful transmission of said electronic mail message to said facsimile device, after receiving said electronic mail message if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message to an original address of said electronic mail message;

a first-delivery-confirmation-mail transmitting unit that transmits the first delivery-confirmation mail message to the original address of said electronic mail message;

a second-delivery-confirmation-mail creating unit that creates a second delivery-confirmation mail message notifying a result of the image-information transmission by said Internet facsimile gateway device to the facsimile device after said image-information transmission; and

a second-delivery-confirmation-mail transmitting unit that transmits the second delivery-confirmation mail message to the original address of said electronic mail message.

22. (original) The Internet facsimile gateway device as claimed in claim 21, wherein:

the first delivery-confirmation mail message is regulated by a DSN;

the second delivery-confirmation mail message is regulated by the DSN; and

the second-delivery-confirmation-mail creating unit creates the second delivery-confirmation mail message regulated by the DSN notifying a successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the successful image

transmission to the original address of said electronic mail message.

23. (original) The Internet facsimile gateway device as claimed in claim 21, wherein:
the first delivery-confirmation mail message is regulated by the DSN;
the second delivery-confirmation mail message is regulated by the DSN; and
the second-delivery-confirmation-mail creating unit that creates the second delivery-confirmation mail message regulated by the DSN notifying a failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the failed image transmission to the original address of said electronic mail message.

24. (original) The Internet facsimile gateway device as claimed in claim 21, wherein:
the first delivery-confirmation mail message is regulated by a MDN;
the second delivery-confirmation mail message is regulated by the MDN; and
the second-delivery-confirmation-mail creating unit that creates the second delivery-confirmation mail message regulated by the MDN notifying the successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the successful image transmission to the original address of said electronic mail message.

25. (original) The Internet facsimile gateway device as claimed in claim 21, wherein:
the first delivery-confirmation mail message is regulated by the MDN;

the second delivery-confirmation mail message is regulated by the MDN; and

the second-delivery-confirmation-mail creating unit creates the second delivery-confirmation mail message regulated by the MDN notifying the failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the failed image transmission to the original address of said electronic mail message.

26. (original) The Internet facsimile gateway device as claimed in claim 21, wherein the telecommunication network is a general switched telephone network GSTN.

27. (original) The Internet facsimile gateway device as claimed in claim 21, wherein the telecommunication network is an analog public network PSTN, and the facsimile device is a G3 facsimile device.

28. (original) The Internet facsimile gateway device as claimed in claim 21, wherein the telecommunication network is an integrated services digital network ISDN, and the facsimile device is a G4 facsimile device.

29. (previously presented) A method of controlling an Internet facsimile gateway device, comprising the steps of:

connecting to a telecommunication network and the Internet;

transmitting image information included in an electronic mail message to a facsimile device by facsimile transmission over the telecommunication network that is not the Internet,

when receiving said electronic mail message requesting image-information transmission to the facsimile device;

creating a delivery-confirmation mail message notifying a result of the image-information transmission after completing the image-information transmission, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message to an original address of said electronic mail message; and

transmitting the delivery-confirmation mail message to the original address of said electronic mail message.

30. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the delivery-confirmation mail message is regulated by a DSN, said method comprising the step of creating the delivery-confirmation mail message regulated by the DSN notifying a successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the successful image transmission to the original address of said electronic mail message.

31. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the delivery-confirmation mail message is regulated by the DSN, said method comprising the step of creating the delivery-confirmation mail message regulated by the DSN notifying a failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the

DSN notifying the failed image transmission to the original address of said electronic mail message.

32. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the delivery-confirmation mail message is regulated by a MDN, said method comprising the step of creating the delivery-confirmation mail message regulated by the MDN notifying the successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the successful image transmission to the original address of said electronic mail message.

33. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the delivery-confirmation mail message is regulated by the MDN, said method comprising the step of creating the delivery-confirmation mail message regulated by the MDN notifying the failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the failed image transmission to the original address of said electronic mail message.

34. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the telecommunication network is a general switched telephone network GSTN, said method comprising the step of connecting to the general switched telephone

network GSTN and the Internet.

35. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the telecommunication network is an analog public network PSTN, and the facsimile device is a G3 facsimile device, said method comprising the steps of:

connecting to the analog public network PSTN and the Internet; and

exchanging the image information with the G3 facsimile device through the connected analog public network PSTN.

36. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 29, wherein the telecommunication network is an integrated services digital network ISDN, and the facsimile device is a G4 facsimile device, said method comprising the steps of:

connecting to the integrated services digital network ISDN and the Internet; and

exchanging the image information with the G4 facsimile device through the connected integrated services digital network ISDN.

37. (original) The method of controlling an Internet facsimile gateway device as claimed in claim 29, said method comprising the step of creating the delivery-confirmation mail message that notifies the result of the image-information transmission, said result including reception ability information of the facsimile device received therefrom, after completing the image-information transmission if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message to the original address of said electronic mail message.

38. (original) A method of controlling an Internet facsimile gateway device, comprising the steps of:

connecting to a telecommunication network and the Internet;

transmitting image information included in an electronic mail message to a facsimile device after receiving said electronic mail message requesting image-information transmission to the facsimile device;

creating a first delivery-confirmation mail message notifying a successful transmission of said electronic mail message to said facsimile device, after receiving said electronic mail message if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message to an original address of said electronic mail message;

transmitting the first delivery-confirmation mail message to the original address of said electronic mail message;

creating a second delivery-confirmation mail message notifying a result of the image-information transmission by said Internet facsimile gateway device to the facsimile device after said image-information transmission; and

transmitting the second delivery-confirmation mail message to the original address of said electronic mail message.

39. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 38, wherein the first delivery-confirmation mail message is regulated by a DSN, and the second delivery-confirmation mail message is regulated by the DSN, said method comprising the step of creating the second delivery-confirmation mail message regulated by the DSN notifying a successful image transmission after the image-information transmission by said

Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the successful image transmission to the original address of said electronic mail message.

40. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 38, wherein the first delivery-confirmation mail message is regulated by the DSN, and the second delivery-confirmation mail message is regulated by the DSN, said method comprising the step of creating the second delivery-confirmation mail message regulated by the DSN notifying a failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the DSN notifying the failed image transmission to the original address of said electronic mail message.

41. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 38, wherein the first delivery-confirmation mail message is regulated by a MDN, and the second delivery-confirmation mail message is regulated by the MDN, said method comprising the step of creating the second delivery-confirmation mail message regulated by the MDN notifying the successful image transmission after the image-information transmission by said Internet facsimile gateway device is succeeded, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the successful image transmission to the original address of said electronic mail message.

42. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 38, wherein the first delivery-confirmation mail message is regulated by the MDN, and the second delivery-confirmation mail message is regulated by the MDN, said method comprising the step of creating the second delivery-confirmation mail message regulated by the MDN notifying the failed image transmission after the image-information transmission by said Internet facsimile gateway device is failed, if said electronic mail message requests said Internet facsimile gateway device to transmit the delivery-confirmation mail message regulated by the MDN notifying the failed image transmission to the original address of said electronic mail message.

43. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 38, wherein the telecommunication network is a general switched telephone network GSTN, said method comprising the step of connecting to the general switched telephone network GSTN and the Internet.

44. (original) The method of controlling the Internet facsimile gateway device as claimed in claim 38, wherein the telecommunication network is an analog public network PSTN, and the facsimile device is a G3 facsimile device, said method comprising the steps of:

connecting to the analog public network PSTN and the Internet; and

exchanging the image information with the G3 facsimile device through the connected analog public network PSTN.

45. (original) The method of controlling the Internet facsimile gateway device as

claimed in claim 38, wherein the telecommunication network is an integrated services digital network ISDN, and the facsimile device is a G4 facsimile device, said method comprising the steps of:

connecting to the integrated services digital network ISDN and the Internet; and
exchanging the image information with the G4 facsimile device through the connected integrated services digital network ISDN.

46. (new) A transmitting device comprising:
an inputting device configured to receive a request for transmitting image information to a receiving device;
a transmitting unit configured to transmit the image information to the receiving device;
a mail creating unit configured to create a mail for notifying a result of the transmission of the image information after the transmission of the image information is completed; and
a mail transmitting unit configured to transmit the mail to an address corresponding to the request.

47. (new) The transmitting device as claimed in claim 46, wherein the mail is regulated by a DSN, and the mail creating unit is configured to create the mail regulated by the DSN notifying a successful image transmission after the transmission of the image information by said transmitting device succeeds, if said request requests said transmitting device to transmit the mail regulated by the DSN notifying the successful image transmission to the address corresponding to the request.

48. (new) The transmitting device as claimed in claim 46, wherein the mail is regulated

by the DSN, and the mail creating unit that creates the mail regulated by the DSN notifying a failed image transmission after the transmission of the image information by said transmitting device fails, if said request requests said transmitting device to transmit the mail regulated by the DSN notifying the failed image transmission to the address corresponding to the request.

49. (new) The transmitting device as claimed in claim 46, wherein the mail is regulated by a MDN; and the mail creating unit is configured to create the mail regulated by the NDN notifying a successful image transmission after the transmission of the image information by said transmitting device succeeds, if said request requests said transmitting device to transmit the mail regulated by the MDN notifying the successful image transmission to the address corresponding to said request.

50. (new) The transmitting device as claimed in claim 46, wherein the mail is regulated by a MDN; and the mail creating unit is configured to create the mail regulated by the MDN notifying a failed image transmission after the transmission of the image information by said transmitting device fails, if said request requests said transmitting device to transmit the mail regulated by the MDN notifying the failed image transmission to the address corresponding to the request.

51. (new) The transmitting device as claimed in claim 46, wherein the mail includes a first extension field that indicates a total number of pages transmitted to the receiving device.

52. (new) The transmitting device as claimed in claim 46, wherein the mail includes a second extension field that indicates a communication charge for transmitting the image

information to the receiving device.

53. (new) The transmitting device as claimed in claim 46, wherein the mail includes a third extension field that indicates a time at which the transmission of the image information is completed.

54. (new) The transmitting device as claimed in claim 46, wherein said mail creating unit is configured to create the mail that notifies a result of the transmission of the image information, said result including reception ability information of the receiving device received therefrom, after the transmission of the image information by said transmitting device is completed if said request requests said transmitting device to transmit the mail to the address corresponding to said request.

55. (new) A transmitting device comprising:

an inputting device configured to receive a request for transmitting image information to a receiving device;

a transmitting unit configured to transmit the image information to the receiving device;

a first mail creating unit configured to creates first mail for notifying of a successful transmission of said request, after receiving said request if said request requests said transmitting device to transmit the first mail to an address corresponding to the request;

a first mail transmitting unit configured to transmit the first mail to the address corresponding to the request;

a first mail transmitting unit configured to transmit the first mail to the address corresponding to the request;

a second mail creating unit configured to create second mail for notifying of a result of the transmission of the image information by said transmitting device to the receiving device after said transmission of the image information; and

a second mail transmitting unit configured to transmit the second mail to the address corresponding to the request.

56. (new) The transmitting device as claimed in claim 55, wherein the first mail is regulated by a DSN, and the second mail is regulated by the DSN, and wherein the second mail creating unit is configured to create the second mail regulated by the DSN notifying of a successful image transmission after the transmission of the image information by said transmitting device succeeds, if said request requests said transmitting device to transmit the mail regulated by the DSN notifying of the successful image transmission to the address corresponding to the request.

57. (new) The transmitting device as claimed in claim 55, wherein the first mail is regulated by the DSN, and the second mail is regulated by the DSN, and wherein the second mail creating unit is configured to create the second mail regulated by the DSN notifying of a failed image transmission after the transmission of the image information by said transmitting device fails, if said request requests said transmitting device to transmit the second mail regulated by the DSN notifying of the failed image transmission to the address corresponding to said request.

58. (new) The transmitting device as claimed in claim 55, wherein the first mail is regulated by a MDN, and the second mail is regulated by the MDN, and wherein the second mail creating unit is configured to create the second mail regulated by the MDN notifying of a

successful image transmission after the transmission of the image information by said transmitting device succeeds, if said request requests said transmitting device to transmit the second mail regulated by the MDN notifying of the successful image transmission to the address corresponding to the request.

59. (new) The transmitting device as claimed in claim 55, wherein the first mail is regulated by the MDN, and the second mail is regulated by the MDN, and wherein the second mail creating unit is configured to create the second mail regulated by the MDN notifying of a failed image transmission after the transmission of the image information by said transmitting device fails, if said request requests said transmitting device to transmit the second mail regulated by the MDN notifying of the failed image transmission to the address corresponding to said request.